

# Exhibit 4



UNITED STATES  
PATENT AND TRADEMARK OFFICE

## Assignment abstract of title for Application 15211430

Invention title/Inventor MESSAGE LINK SERVER WITH PLURAL MESSAGE DELIVERY TRIGGERS Gregory G. Raleigh	Patent 9615192 Apr 4, 2017	Publication 20160323279 Nov 3, 2016	Application 15211430 Jul 15, 2016	PCT	International registration
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## Assignments (2 total)

### Assignment 2

Reel/frame 041268/0108	Execution date Dec 29, 2016	Date recorded Jan 5, 2017	Properties 50	Pages 6
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#### Conveyance

MERGER AND CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

#### Assignors

HEADWATER PARTNERS I LLC  
HEADWATER MANAGEMENT LLC

#### Correspondent

ANN TAYLOR  
1011 PRUITT PLACE  
TYLER, TX 75703

#### Assignee

HEADWATER RESEARCH LLC  
1011 PRUITT PLACE  
TYLER, TEXAS 75703

### Assignment 1

Reel/frame 039170/0341	Execution date Mar 24, 2009	Date recorded Jul 15, 2016	Properties 1	Pages 2
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#### Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

#### Assignors

RALEIGH, GREGORY G.

#### Correspondent

ANN TAYLOR  
1011 PRUITT PLACE  
TYLER, TX 75703

#### Assignee

HEADWATER PARTNERS I LLC  
1011 PRUITT PLACE  
TYLER, TEXAS 75703



## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3964699

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GREGORY G. RALEIGH	03/24/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HEADWATER PARTNERS I LLC
<b>Street Address:</b>	1011 PRUITT PLACE
<b>City:</b>	TYLER
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75703
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15211430
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	650-517-2791
<b>Email:</b>	ann.taylor@headwaterllc.com
<b>Correspondent Name:</b>	ANN TAYLOR
<b>Address Line 1:</b>	1011 PRUITT PLACE
<b>Address Line 4:</b>	TYLER, TEXAS 75703
<b>ATTORNEY DOCKET NUMBER:</b>	RALEP007C11C3C2C1
<b>NAME OF SUBMITTER:</b>	ANN TAYLOR
<b>SIGNATURE:</b>	/Ann Taylor/
<b>DATE SIGNED:</b>	07/15/2016
<b>Total Attachments: 1</b>	
source=P007C11C2_Assignment#page1.tif	

## ASSIGNMENT OF PATENT APPLICATION

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

### AUTOMATED DEVICE PROVISIONING AND ACTIVATION

for which I (we) have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on March 2, 2009, and which bears the Application No. 12/380,780, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known;

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to Headwater Partners I, LLC, a Delaware Limited Liability Company having a place of business at 2995 Woodside Road, Ste. 400, Woodside, CA 94062-2048, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) (including foreign applications) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application and/or in any provisional application to which the above referenced application claims priority.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

1) Signature:   
Typed Name: Gregory G. Raleigh

Date: 3/24/09

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4211982

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	MERGER AND CHANGE OF NAME
<b>EFFECTIVE DATE:</b>	12/29/2016

**CONVEYING PARTY DATA**

Name	Execution Date
HEADWATER PARTNERS I LLC	12/29/2016

**NEWLY MERGED ENTITY DATA**

Name	Execution Date
HEADWATER MANAGEMENT LLC	12/29/2016

**MERGED ENTITY'S NEW NAME (RECEIVING PARTY)**

<b>Name:</b>	HEADWATER RESEARCH LLC
<b>Street Address:</b>	1011 PRUITT PLACE
<b>City:</b>	TYLER
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75703

**PROPERTY NUMBERS Total: 52**

Property Type	Number
Application Number:	12380779
Application Number:	12380758
Application Number:	14565889
Application Number:	13866955
Application Number:	14959808
Application Number:	15211430
Application Number:	15239398
Application Number:	12380770
Application Number:	12380783
Application Number:	14335682
Application Number:	14612073
Application Number:	15280922
Application Number:	14948065
Application Number:	14037321
Application Number:	15287576

PATENT

504165305

REEL: 041268 FRAME: 0108

Property Type	Number
Application Number:	14158206
Application Number:	15210619
Application Number:	14960284
Application Number:	14952374
Application Number:	14082040
Application Number:	14687707
Application Number:	14687715
Application Number:	15220184
Application Number:	14703620
Application Number:	14473137
Application Number:	15162469
Application Number:	14551809
Application Number:	14578124
Application Number:	15287603
Application Number:	14272274
Application Number:	15158522
Application Number:	15160520
Application Number:	15287597
Application Number:	14541628
Application Number:	14339110
Application Number:	15227814
Application Number:	13441821
Application Number:	15369542
Application Number:	13451337
Application Number:	13802483
Application Number:	13842172
Application Number:	14948082
Application Number:	15177962
Application Number:	13748152
Application Number:	14208236
Application Number:	15158526
Application Number:	13947099
Application Number:	14214492
Application Number:	14181910
Application Number:	14275805
Application Number:	14083324
Application Number:	15279990

**CORRESPONDENCE DATA**

**Fax Number:**

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 903-201-6211

**Email:** patent@headwaterllc.com

**Correspondent Name:** ANN TAYLOR

**Address Line 1:** 1011 PRUITT PLACE

**Address Line 4:** TYLER, TEXAS 75703

<b>NAME OF SUBMITTER:</b>	ANN TAYLOR
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<b>SIGNATURE:</b>	/Ann Taylor/
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<b>DATE SIGNED:</b>	01/05/2017
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**Total Attachments: 3**

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# Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"HEADWATER PARTNERS I LLC", A DELAWARE LIMITED LIABILITY COMPANY,

WITH AND INTO "HEADWATER MANAGEMENT LLC" UNDER THE NAME OF "HEADWATER RESEARCH LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF DECEMBER, A.D. 2016, AT 3:02 O`CLOCK P.M.



A handwritten signature in black ink, appearing to read "JB", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

4966025 8100M  
SR# 20167326785

Authentication: 203606635  
Date: 12-29-16

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

**PATENT**  
**REEL: 041268 FRAME: 0111**

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 03:02 PM 12/29/2016  
FILED 03:02 PM 12/29/2016  
SR 20167326785 - File Number 4966025

**CERTIFICATE OF MERGER**

**MERGING**

**HEADWATER PARTNERS I LLC  
A DELAWARE LIMITED LIABILITY COMPANY**

**WITH AND INTO**

**HEADWATER MANAGEMENT LLC  
A DELAWARE LIMITED LIABILITY COMPANY**

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Pursuant to Section 18-209 of the Delaware Limited Liability Company Act

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Headwater Management LLC, a Delaware limited liability company (the “**LLC**”), does hereby certify as follows:

**FIRST:** The LLC is a limited liability company duly formed and existing under the laws of the State of Delaware and Headwater Partners I LLC (the “**Company**”) is a limited liability company duly formed and existing under the laws of the State of Delaware.

**SECOND:** The Agreement and Plan of Merger (the “**Merger Agreement**”), dated as of December 29, 2016, by and among the Company and the LLC, setting forth the terms and conditions of the merger of the Company with and into the LLC (the “**Merger**”), has been approved, adopted, certified, executed and acknowledged by the LLC and the Company in accordance with Section 18-209 of the Delaware Limited Liability Company Act.

**THIRD:** The LLC shall be the surviving entity of the Merger (the “**Surviving LLC**”) and the name of the Surviving LLC shall be changed to “Headwater Research LLC”.

**FOURTH:** The executed Merger Agreement is on file at the principal place of business and office of the Surviving LLC at the following address: 1011 Pruitt Place, Tyler, Texas 75703.

**FIFTH:** A copy of the Merger Agreement will be furnished by the Surviving LLC, on request and without cost, to any member of the Company or the LLC.

**SIXTH:** The Merger shall be effective upon the filing of this Certificate of Merger with the Secretary of State of the State of Delaware.

\* \* \*

**IN WITNESS WHEREOF**, Headwater Management LLC has caused this Certificate of Merger to be executed by an authorized person on December 29, 2016.

**HEADWATER MANAGEMENT LLC**

By: /s/ Greg Raleigh

Name: Greg Raleigh

Title: Manager

*[Signature Page to Certificate of Merger]*